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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/17/2004

MICHAEL L GOLDMAN NIXON PEABODY LLP CLINTON SQUARE PO BOX 31051 ROCHESTER, NY 14603

EXAM	IINER
ZARA,	JANE J
ART UNIT	PAPER NUMBER

1635 DATE MAILED: 02/17/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/428,371	10/28/1999	DAVID M. SODERLUND	19603/606-(C	4568

TITLE OF INVENTION: INSECT SODIUM CHANNELS FROM INSECTICIDE-SUSCEPTIBLE AND INSECTICIDE-RESISTANT HOUSE FLIES

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE '	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	05/17/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 02/17/2004 MICHAEL L GOLDMAN Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. NIXON PEABODY LLP **CLINTON SQUARE PO BOX 31051** ROCHESTER, NY 14603 (Depositor's name) (Signature (Date FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE APPLICATION NO. 10/28/1999 DAVID M SODERLUND 19603/606-(C 4568 09/428,371 TITLE OF INVENTION: INSECT SODIUM CHANNELS FROM INSECTICIDE-SUSCEPTIBLE AND INSECTICIDE-RESISTANT HOUSE FLIES TOTAL FEE(S) DUE DATE DUE **ISSUE FEE PUBLICATION FEE** SMALL ENTITY APPLN. TYPE 05/17/2004 \$965 nonprovisional YES \$665 \$300 CLASS-SUBCLASS ART UNIT **EXAMINER** ZARA, JANE J 1635 435-006000 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); corporation or other private group entity individual 4b. Payment of Fee(s) 4a. The following fee(s) are enclosed: A check in the amount of the fee(s) is enclosed. ☐ Issue Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ Publication Fee ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number \_\_\_\_\_\_ (enclose an extra copy of this form). ☐ Advance Order - # of Copies Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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MICHAEL L GOLDMAN		ZARA, JANE J		
NIXON PEABODY CLINTON SQUAR			ART UNIT	PAPER NUMBER
ROCHESTER, NY 14603		1635		
			DATE MAILED: 02/17/2004	1

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 67 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 67 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Application No.	Applicant(s)	Applicant(s)	
09/428.371	SODERLUND ET AL.	SODERLUND ET AL	
Examiner	Art Unit		
Jane Zara	1635		
(OR REMAINS) CLOSED or other appropriate comm	in this application. If not included nunication will be mailed in due course. <b>THIS</b>		
e Examiner.			
e been received. e been received in Applicati	on No		
of this communication to fil IENT of this application.	e a reply complying with the requirements		
itted. Note the attached EXes reason(s) why the oath	AMINER'S AMENDMENT or NOTICE OF or declaration is deficient.		
s Amendment / Comment o	or in the Office action of the drawings in the front (not the back) of		
SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF B	ERIAL must be submitted. Note the OLOGICAL MATERIAL.		
6. ⊠ Interview 9 Paper No 7. ⊠ Examiner' 8. ⊠ Examiner'	Summary (PTO-413), ./Mail Date <u>1-26-04</u> . s Amendment/Comment s Statement of Reasons for Allowance		
	D9/428,371  Examiner  Jane Zara  Pars on the cover she t w (OR REMAINS) CLOSED or other appropriate common GHTS. This application is and MPEP 1308.  De Examiner.  Defense Examiner.  De	SODERLUND ET AL.    Examiner	

Art Unit: 1635

## Examiner's Amendment

Authorization for this examiner's amendment was given in a telephone interview with Andrew Gonsalves on or about January 26, 2004.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 41, line 7, and in claim 47, line 5, --in vitro-- has been inserted after "host cell".

In claim 41, line 7, and in claim 47, line 5, --eukaryotic—has been inserted before "host".

In claim 41, line 9, "a" preceding "voltage-sensitive" has been replaced with -said--.

In claim 41, line 13, "the function of the voltage-sensitive" has been deleted and – function—has been inserted after "channel".

In claims 42, 43, 48 and 49, line 1, -- host-- has been inserted before "cell".

In claims 45, 46, 51 and 52, line 1, "said" preceding "evaluation" has been replaced with --the--.

In claim 47, line 10, "a" preceding "voltage-sensitive" has been replaced with -said--.

In claim 47, line 14, "the function of the voltage-sensitive" has been deleted and – function—has been inserted after "channel".

In claims 79 and 82, line 2, "nucleic acid molecule has a" has been replaced with – voltage-sensitive sodium channel is encoded by the--.

The following is an examiner's statement of reasons for allowance: The claimed invention is free of the prior art of record because the prior art of record does not teach or fairly suggest a method for screening a chemical agent for the ability to modify sodium channel function in a host cell in vitro comprising introducing an isolated nucleic acid molecule encoding a voltage sensitive sodium channel of *Musca domestica* of SEQ ID No. 1 or 2, or a nucleic acid molecule that hybridizes to SEQ ID No. 1 or 2 at 42°C, with 5 X SSPC and 50% formamide with washing at 65°C with 0.5 X SSPC, and optionally introducing a second nucleic acid molecule encoding a tip E protein, expressing the molecules encoded by the introduced the nucleic acid

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molecules, exposing the host cell to a chemical agent, and evaluating the exposed host cell to determine if the chemical agent modifies the function of the voltage sensitive sodium channel.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

RAM R. SHUKLA, PH.D.

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## Conclusion

Certain papers related to this application may be submitted to Art Unit 1635 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone number for the Group is 703-872-9306. NOTE: If Applicant *does* submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Jane Zara** whose telephone number is **(571) 272-0765.** If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader, can be reached on (571) 272-0760. Any inquiry regarding this application should be directed to the patent analyst, Katrina Turner, whose telephone number is (571) 272-0564. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

JZ

February 1, 2004